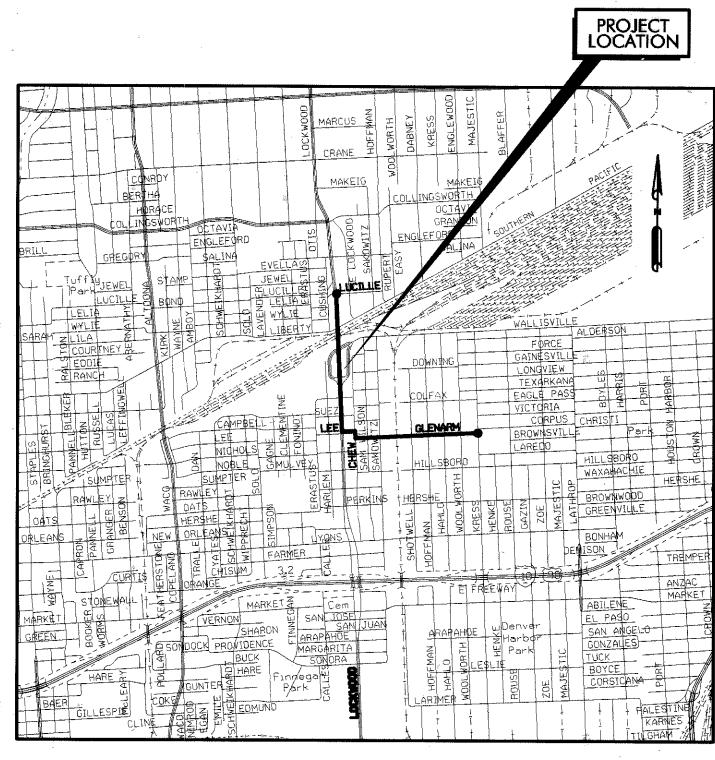
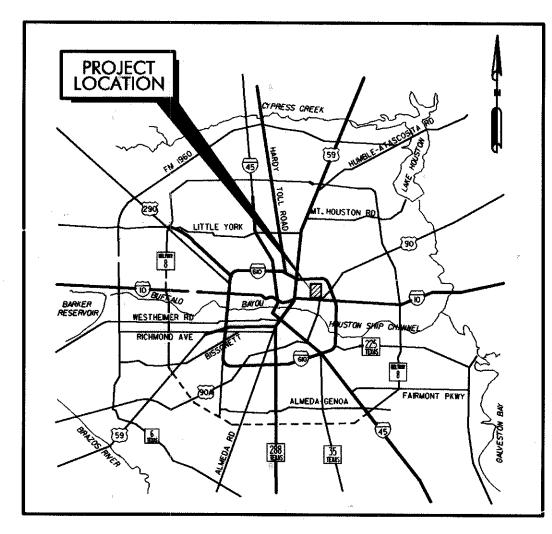
# CITY OF HOUSTON

DEPARTMENT OF PUBLIC WORKS AND ENGINEERING ENGINEERING, CONSTRUCTION AND REAL ESTATE GROUP

SURFACE WATER TRANSMISSION PROGRAM
PROPOSED 84" WATER MAIN ALONG GLENARM, CHEW, LEE, AND LOCKWOOD
FROM KRESS TO LUCILLE



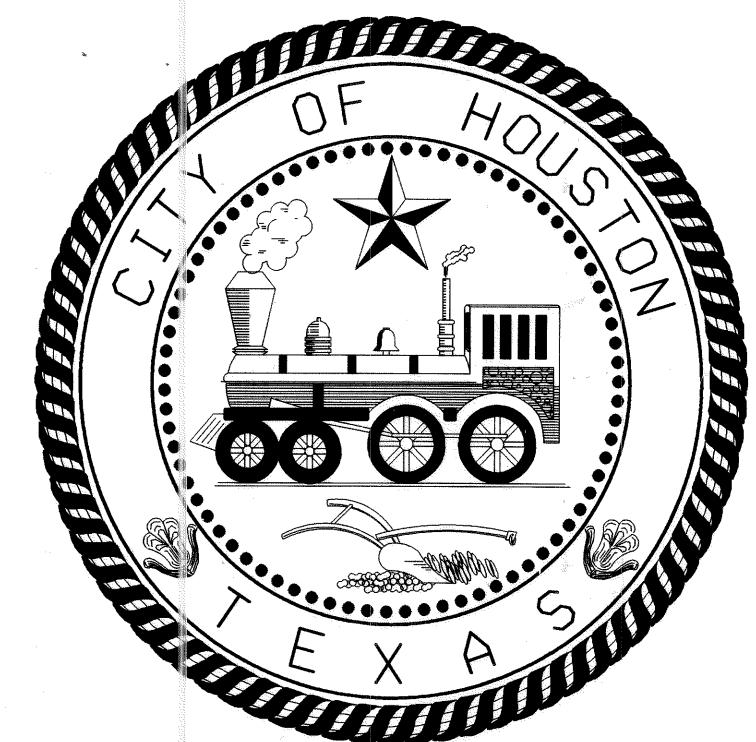
NOT TO SCALE
KEY MAP NO. 494



LOCATION MAP

NOT TO SCALE
(KEY MAP No. 494)
(WATER BLOCK NO. 285-A)

CONTRACT NO. 2B-2
GFS NO. S-0900-33-3 FILE NO. 9750-2



MAYOR LEE P. BROWN

CONTROLLER SYLVIA R. GARCIA

DISTRICT COUNCIL MEMBERS

DISTRICT A

JEW DON BONEY, Jr.
DISTRICT D

JEAN KELLEY DISTRICT G MICHAEL J. YARBROUGH DISTRICT B

> ROB TODD District e

FELIX FRAGA DISTRICT H AT\_LARGE

MARTHA J. WONG
DISTRICT C

RAY F. DRISCOLL
DISTRICT F

JOHN E. CASTILLO
DISTRICT I

ANNISE D. PARKER

POSITION 1

POSITION 2

**COUNCIL MEMBERS** 

ORLANDO SANCHEZ CHRIS BELL
POSITION 3 POSITION 4

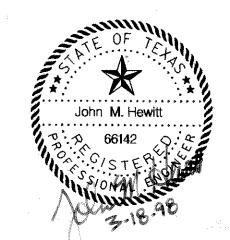
CARROLL G. ROBINSON POSITION 5

RECORD DRAWING 'REVISIONS REFLECT
IN-FIELD CONDITIONS AS RECORDED
BY CONTRACTOR

Lockwood, Andrews & Newnam, Inc.

A SUBSIDIARY OF LEO A DALY 1500 CityWest Blvd Houston, Tx 77042

LANDTECH CONSULTANTS
2627 North Loop West
Suite 224
Houston, Texas 77008
Tel. No. (713) 861-7068



11-13-00

APPROVED
CITY OF HOUSTON

CITY ENGINEER RICHARD C. SCOTT, P. E. 4/27/98 DATE

DIRECTOR OF PUBLIC WORKS AND ENGINEERING DA

CITY DWG. NO: 34535 SHEET NO. 1 OF 75 SHEETS

j:\*^oh822\*2b2\*2b-2cov.dgn

INFORMATION OBTAINED

NOT FIELD VERIFIED.

FROM RECORD DRAWINGS.

SOIL BORING & PIEZOMETER LOCATION

□ MAILBOX

O METAL POST

LIGHT STANDARD

ELECTRICAL BOX

FILE NAME: j:\*coh822\*2b2\*index2.dgn PLOTTED ON: 03/17/98

DIRECTOR OF PUBLIC WORKS

AND ENGINEERING

SCALE: HORIZ: 1"=20"

SURVEY BY: GEOGRAM

VERT: 1"=2"

SUBMITTED:

4/27/38

34535

DESIGNED BY: CAW

SHEET NO. 2 OF 75 SHEETS

DRAWN BY: CAW

SANITARY SEWER REPLACEMENT

# GENERAL CONSTRUCTION

- CALL CITY OF HOUSTON TRAFFIC AND TRANSPORTATION DIVISION WHEN WORK IS SCHEDULED NEAR SIGNAL CONDUITS WITH THE CITY OF HOUSTON (HOUSTON PHONE NUMBER (713) 658-4300). CALL AT LEAST FIVE (5) WORKING DAYS IN
- VERIFY LOCATIONS OF UNDERGROUND UTILITY LINES BY CONTACTING THE HOUSTON AREA UTILITY COORDINATING COMMITTEE AT 1-800-245-4545 OR (713) 233-4567 FORTY-EIGHT (48) HOURS BEFORE BEGINNING WORK.
- ADJUST MANHOLE RINGS AND LOWER AS REQUIRED FOR TEMPORARY AND NEW PAVEMENT.
- TEMPORARILY RELOCATE EXISTING UTILITIES IN CONFLICT WITH PROPOSED CONSTRUCTION AS REQUIRED TO PROVIDE CONTINUOUS SERVICE BY THE UTILITY. AFTER CONSTRUCTION RETURN UTILITY TO ORIGINAL LOCATION. REFER TO SPECIFICATION SECTION 01110.
- OBTAIN CITY ENGINEER'S APPROVAL TO PERMANENTLY RELOCATE EXISTING UTILITIES NOT SHOWN ON THE DRAWINGS PRIOR TO RELOCATION. CONFORM TO APPLICABLE STANDARDS AND SPECIFICATIONS OF CITY OF HOUSTON.
- THE LOCATION OF ALL UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY. THE CITY EXPECTS THE CONTRACTOR TO PRE-LOCATE, BY WHATEVER MEANS MAY BE REQUIRED, (METAL DETECTION EQUIPMENT, PROBES, EXCAVATION, SURVEY) ALL UNDERGROUND UTILITIES BEFORE TRENCHING FOR THIS 84" WATER MAIN. ALL INVESTIGATIVE WORK WILL BE DONE AND ALL REPAIRS REQUIRED AFTER INVESTIGATION WILL BE ACCOMPLISHED BY THE CONTRACTOR. NO SEPARATE PAY ITEM. SEE SPECIFICATION SECTION 02317. CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY THIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.
- TRENCH WIDTH FOR INSTALLATION OF 84" WATER MAIN IS SHOWN ON DETAIL 3 SHEET 48. MAXIMUM LIMITS OF PAVEMENT REPLACEMENT ARE SHOWN IN TABLE FORM ON SHEET 48. REPLACE AT CONTRACTOR'S EXPENSE ADDITIONAL PAVEMENT REMOVED OUTSIDE THE SPECIFIED TRENCH ZONES/PAVEMENT REPLACEMENT LIMITS. EXISTING UTILITIES ARE TO REMAIN IN SERVICE AT ALL TIMES.
- USE APPROPRIATE COMPACTION EQUIPMENT FOR THE TYPE OF SOIL ENCOUNTERED. CLAY BACKFILLS NORMALLY REQUIRE CONSOLIDATION BY SHEEPS FOOT ROLLER WHEREAS SAND AND GRAVEL CAN BE COMPACTED WITH VIBRATORY EQUIPMENT. CITY ENGINEER MAY REJECT SPECIFIC TYPES OF EQUIPMENT ON SITE AS SOIL CONDITIONS MAY VARY.
- TEST MATERIALS TO BE USED FOR BACKFILL AND ADJUST MOISTURE CONTENT TO SPECIFIED LEVELS BY ADDING WATER OR DRYING SOILS AS NECESSARY AND AS SPECIFIED.
- IN AREAS WHERE EXISTING LANDSCAPING REQUIRES REMOVAL DUE TO PAVEMENT IMPROVEMENTS, CONTACT RESIDENT AND OBTAIN DESIRED LOCATION TO RELOCATE WITHIN ROW. RELOCATE IN ACCORDANCE WITH SPECIFICATION SECTION 02915.
- THE UNDERSIDE OF EXISTING TREE CANOPIES MAY BE RAISED TO FACILITATE CONSTRUCTION PROVIDED: a) PROPOSED TRIMMING IS APPROVED BY CITY ENGINEER, b) WORK IS PERFORMED BY APPROVED ARBORIST, AND c) WORK IS PERFORMED IN ACCORDANCE WITH SECTION 01562 - TREE AND PLANT PROTECTION, NO TREE. EXCEPT ALONG LOCKWOOD, CAN BE REMOVED.

## SURVEY AND BENCH MARK REFERENCE

- THESE PLANS AND THE SURVEYS ON WHICH THEY ARE BASED ARE TIED INTO THE OFFICIAL CITY OF HOUSTON SURVEY SYSTEM IN COMPLIANCE WITH ORDINANCE NO. 69-1978. THE CITY SURVEY MARKERS USED FOR THIS CONTRACT ARE SHOWN ON THE PLANS.
- 2. THALL DIMENSIONS SHOWN ARE APPROXIMATE AND ARE TO BE VERIFIED BY THE CONTRACTOR. HORIZONTAL AND VERTICAL ALIGNMENT CHANGES ARE TO BE APPROVED BY THE CITY ENGINEER.
- ALL COORDINATES SHOWN ARE REFERENCED TO THE TEXAS COORDINATE SYSTEM, SOUTH CENTRAL ZONE. ALL DISTANCES SHOWN ARE SURFACE DISTANCES.
- VERTICAL CONTROL IS SET PRIMARILY BY PK NAIES IN THE EXISTING PAVEMENT, MAINTAIN VERTICAL CONTROL THROUGHOUT THE DURATION OF THE PROJECT BY WHATEVER MEANS NECESSARY.

# LIMITS OF CONSTRUCTION

- 1. LIMIT OPERATIONS TO WITHIN THE CONFINES OF THE CONSTRUCTION WORK LIMITS SHOWN ON THE DRAWINGS. UNLESS OTHERWISE NOTED THE FOLLOWING MORE SPECIFIC TERMS APPLY AND BE ADHERED TO:
  - A. LIMIT EQUIPMENT, MATERIALS, STOCK PILES, ETC. TO ONE (1) CONSTRUCTION WEEK USE, ALONG THE CONSTRUCTION ROUTE.
  - B. WHERE THE CONSTRUCTION LIMITS ARE SHOWN ON THE DRAWINGS TO EXTEND TO THE PROPERTY LINE, KEEP EQUIPMENT, MATERIALS, STOCK PILES, ETC. A MINIMUM OF FIVE (5) FEET AWAY FROM SIDEWALKS.
  - C. SEE TRAFFIC CONTROL PLANS FOR FURTHER CLARIFICATION OF LIMITS OF CONSTRUCTION, ON SHEETS 57 THROUGH 72.
  - TRENCH WIDTHS FOR CONSTRUCTION OF THE 84" WATER MAIN ARE SHOWN IN THE DETAILS ON SHEET 48, EXCAVATING, BEDDING, BACKFILL AND PAVEMENT REPAIR DETAILS.
  - E. WHEN TUNNELING OR AUGERING IS BEING ACCOMPLISHED IN LIEU OF OPEN CUT CONSTRUCTION, ACCESS (OPEN CUT) FROM SURFACE IS DENIED. EXCEPTIONS TO THESE RESTRICTIONS ARE FOR EMERGENCY SITUATIONS WHERE ACTION IS REQUIRED TO SAFE GUARD THE WORKING PROGRESS OR OTHER EXISTING UTILITIES. IN THIS CASE, ENGINEER IS TO BE IMMEDIATELY NOTIFIED OF ANY ADDITIONAL TRAFFIC CONTROL PROCEDURES THAT WILL BE IMPLEMENTED AND ANY OTHER NECESSARY ACTIONS THAT WILL BE TAKEN UNTIL SITUATION HAS BEEN RECTIFIED.

## STORM SEWER AND CULVERTS

1. MAINTAIN ADEQUATE DRAINAGE AT ALL TIMES DURING CONSTRUCTION. RESTORE DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION TO SATISFACTION OF THE OWNING AUTHORITY.

# WASTEWATER CONSTRUCTION NOTES

- 1. RECORD THE LOCATIONS OF ALL STACKS, STUBS, ETC. ON "AS BUILT DRAWINGS".
- MAINTAIN SERVICE TO ALL SEWERS DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL SANITARY SEWER SERVICE LATERALS AFFECTED BY CONSTRUCTION. THE CITY DOES NOT WARRANTY THE LOCATION OR NUMBER OF ANY SANITARY LEADS SHOWN OR NOT SHOWN ON THE PLANS.
- WHERE DUCTILE IRON PIPE SAN TARY SEWER ("D.I.P. SAN. SWR.") IS CALLED FOR ON THE DRAWINGS, THE CONTRACTOR MAY, AT HIS OPTION, PROVIDE EITHER DUCTILE IRON PIPE 150 PSI AND THICKNESS CLASS 52 OR AWWA C900/C905 DR 18 PVC PIPE WITH A PRESSURE RATING OF 150 PSI/C900 AND 235 PSI/C905.

#### MISCELLANEOUS

- UTILITY SERVICE LINES ARE NOT SHOWN ON THE DRAWINGS. ANTICIPATE THAT SUCH SERVICE LINES EXIST AND REPAIR THEM IF DAMAGED DURING CONSTRUCTION AT NO COST TO THE CITY.
- ADJUSTMENT OF EXISTING AND PROPOSED MANHOLE FRAMES AND COVERS ARE INCIDENTAL TO THE COST OF INSTALLATION AND REMOVAL OF TEMPORARY
- ALL UTILITY LOCATIONS SHOWN ARE APPROXIMATE. THERE MAY BE EXISTING LINES NOT SHOWN ON THE DRAWINGS. CONTACT THE UTILITY COORDINATING COMMITTEE AT (713) 223-4567 OR 1-800-669-8344 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE LINES LOCATED. HE ACCEPTS FULL RESPONSIBILITY FOR ANY OR ALL DAMAGES INCURRED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UTILITIES.

#### HOUSTON LIGHTING AND POWER (H.I.&P.)

- 1. OVERHEAD LINES MAY EXIST ON THE PROPERTY. WE HAVE NOT ATTEMPTED TO MARK THOSE LINES SINCE THEY ARE CLEARLY VISIBLE, BUT YOU SHOULD LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH & SAFETY CODE, FORBIDS ALL ACTIVITIES IN WHICH PERSONS OR THINGS MAY COME WITHIN SIX ( ) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES. PARTIES RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS, ARE LEGALLY RESPONSIBLE FOR SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH RIMINAL AND CIVIL LIABILITY. TO ARRANGE FOR LINES TO BE TURNED OFF OR MOVED CALL H.L.&P. AT (713)207-7777.
- 2. HAND DIG WITHIN ONE (1) FOOT OF H.L.&P. CO. UNDERGROUND CONDUIT OR CABLE SYSTEMS.

## ENTEX

- 1. NOTIFY ENTEX AT (713) 675-7400 AFTER UNCOVERING ANY ABANDONED GAS LINES. DO NOT DISTURB GAS LINES UNTIL ENTEX HAS VERIFIED THE STATUS OF THE LINE.
- 2. HAND DIG WITHIN ONE (1) FOOT OF ENTEX CO. UNDERGROUND GAS LINE.
- CAUTION: UNDERGROUND GAS FABILITIES LOCATION OF ENTEX MAIN LINES (TO INCLUDE UNIT GAS TRANSMISSION AND/OR INDUSTRIAL GAS SUPPLY CORPORATION WHERE APPLICABLE) ARE SHOWN IN AN APPROXIMATE LOCATION ONLY. SERVICE LINES ARE USUALLY NOT SHOWN. THE CONTRACTOR SMALL CONTACT THE UTILITY COORDINATING COMMITTEE AT (713) 233-4567 OR 1-800-669-8344 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICE LINES FIELD LOCATED. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.

## SOUTHWESTERN BELL TELEPHONE CO. (SWBT)

- 1. REIMBURSE SWBT CO., AT THE CONTRACTOR'S EXPENSE, FOR ALL THE COSTS ASSOCIATED WITH WORK PERFORMED BY SWBT CO. FOR THE BRACING, SUPPORTING, EXPOSING AND/OR RELOCATING OF SWBT CO. UNDERGROUND CONDUIT SYSTEM AND/OR BURIED AERIAL CABLES AND POLES.
- HAND DIG WITHIN ONE (1) FOOT OF SWBT CO. UNDERGROUND CONDUIT CABLE SYSTEMS OR MANHOLES. NOTIFY SWBT OF CONSTRUCTION WITHIN FIVE (5) FEET OF SWBT MANHOLES.
- 3. COORDINATE ANY CONFLICT WITH SWBT CO. REPRESENTATIVES AND PROVIDE NECESSARY SUPPORT FOR SWBT CD. CABLE AS INSTRUCTED BY SWBT CO. NO SEPARATE PAYMENT WILL BE MAD FOR SUCH WORK.

# STREET, BRIDGE AND R.O.W.

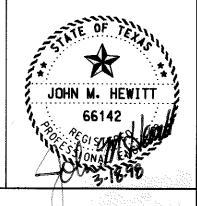
- ◆ 1. CONDITION OF THE ROAD AND/OR®RIGHT-OF-WAY, UPON COMPLETION OF THE JOB, SHALL BE AS GOOD AS OR BETTER THAN PRIOR TO STARTING WORK.
- 2. EXPOSE 15" OF REINFORCING STEEL AT PROPOSED SAWED JOINT. IF NO REINFORCING STEEL EXISTS, US HORIZONTAL DOWELS THAT ARE #6 BARS 24" LONG. 24" C-C. DRILLED AND EMBEDDED 8" INTO THE CENTER OF THE EXISTING SLAB WITH "PO ROC" DR EQUAL.
- 3. TAKE NECESSARY PRECAUTIONS TO PROTECT ROOT SYSTEMS OF SHRUBS. PLANTS AND TREÉS ALONG THE AMEA OF EXCAVATION.
- 4. COMPLY WITH OSHA REGULATIONS AND STATE OF TEXAS LAW CONCERNING EXCAVATION, TRENCHING AND SHORING AS SPECIFIED IN CITY OF HOUSTON ORDINANCE #87-1457.
- REPLACE EXISTING PAVEMENTS, BURBS, SIDEWALKS AND DRIVEWAYS DAMAGED OR REMOVED DURING CONSTRUCTION TO CITY OF HOUSTON STANDARDS, WITH LATEST ADDENDA AND AMEN MENTS THERETO.
- INSTALL WHEELCHAIR RAMPS IN ACCORDANCE WITH CITY OF HOUSTON STANDARDS AT ALL INTERSECTIONS WHERE SIDEWALKS EXIST AND THE EXISTING CURB OR SIDEWALK IS DAMAGED OR REMOVED DURING CONSTRUCTION.

## STANDARD PAVING NOTES

THE FOLLOWING NOTES OR PHRASES ARE SPECIFIC TO PAVING IMPROVEMENTS ALONG GLENARM STREET. PLAN & PROFILE SHEETS 26, 28, 30 & 32 REFERENCE THE NOTES OR PHRASES IN THE PLAN VIEW BY NOTE NUMBER AS LISTED BELOW:

- PROPOSED CONCRETE PIPE STUB WITH RING GRATE AS SHOWN ON STANDARD DRAWING - "STORM SEWER-RING GRATE FOR OPEN END OF 18" TO 72" RCP STUBS TO DITCH", AT A MINIMUM OF 0.5 FEET BELOW THE EXISTING DITCH FLOW LINE. REALIGN DITCH AS DIRECTED BY THE ENGINEER.
- PROPOSED FLEXIBLE BASE WITH 2-INCH HOT MIX ASPHALTIC CONCRETE SURFACING. FLEXIBLE BASE SHALL BE 6-INCHES OF HOT MIX ASPHALTIC CONCRETE BASE COURSE, 8-INCHES OF CRUSHED CONCRETE.
- PROPOSED STANDARD MONOLITHIC CURB AND GUTTER.
  - REMOVE AND REPLACE SIDEWALK AS DIRECTED BY THE ENGINEER.
- DECREASE CURB EXPOSURE FROM 6-INCHES TO 0-INCHES IN 2 FEET.
- REMOVE EXISTING CULVERT.
- REMOVE EXISTING INLET. PLUG AND ABANDON LEAD.
- MEET EXISTING CURB OR CURB AND GUTTER FOR GRADE AND ALIGNMENT.
- PROPOSED WHEELCHAIR RAMP, AS SHOWN ON STANDARD DRAWING "WHEELCHAIR RAMP DETAILS".
- ADJUST EXISTING MANHOLE FRAME AND COVER TO FIT NEW GRADE.
- ADJUST EXISTING WATER VALVE BOXES TO NEW PAVING GRADE. REPLACE ALL MISSING OR DAMAGED VALVE BOXES AND COVERS.

PRIVATE UTILITY LINES SHOWN ENTEX, INC. SOUTHWESTERN BELL TELEPHONE CO. Valid for One Year Only HOUSTON LIGHTING & POWER CO. Approved Only for Crossing Underground Ductlines Unless Noted. Valid At Time of Review Only. CABLE COMPANY



Lockwood, Andrews 1500 CityWest Blvd & Newnam, Inc. Houston, Tx 77042 A SUBSIDIARY OF LEO A DALY

Approved Quality Control Date 3.2392 Date



CONTRACT 2B-2

CONSTRUCTION NOTES

FILE NO. 9750-2 G.F.S. NO. S-0900-33-3

CITY OF HOUSTON

DEPARTMENT OF PUBLIC WORKS AND ENGINEERING ENGINEERING, CONSTRUCTION AND REAL ESTATE GROUP

WASTEWATER ENGINEERING

STORM SEWER ENGINEERING

11-13-00

A CONTRACT OF THE PERSON IN

1/20/98

MANAGER, WATER ENGINEERING OTHER DEPARTMENTS

SPONSOR DEPARTMENT

DIRECTOR OF PUBLIC WORKS AND ENGINEERING

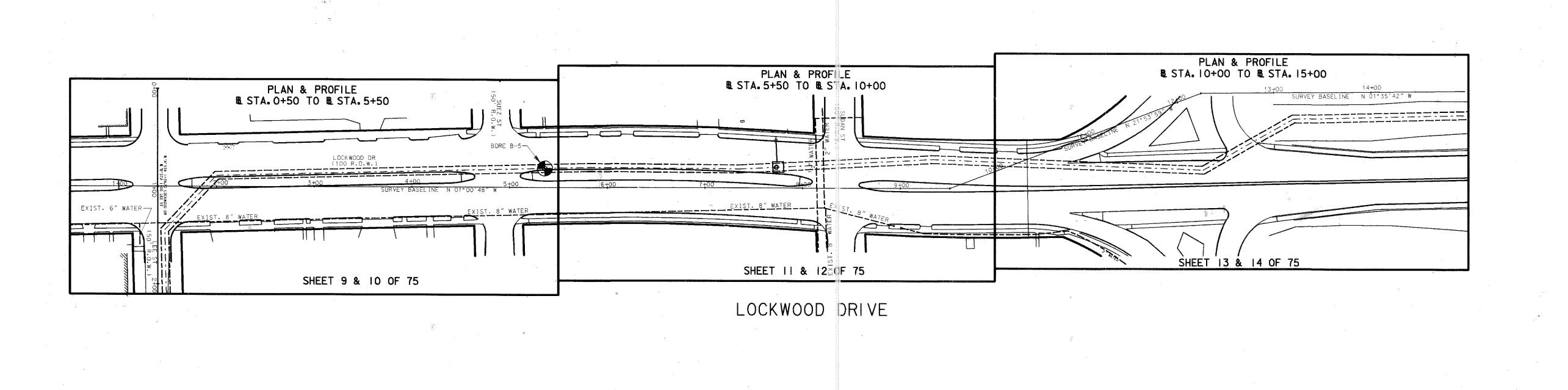
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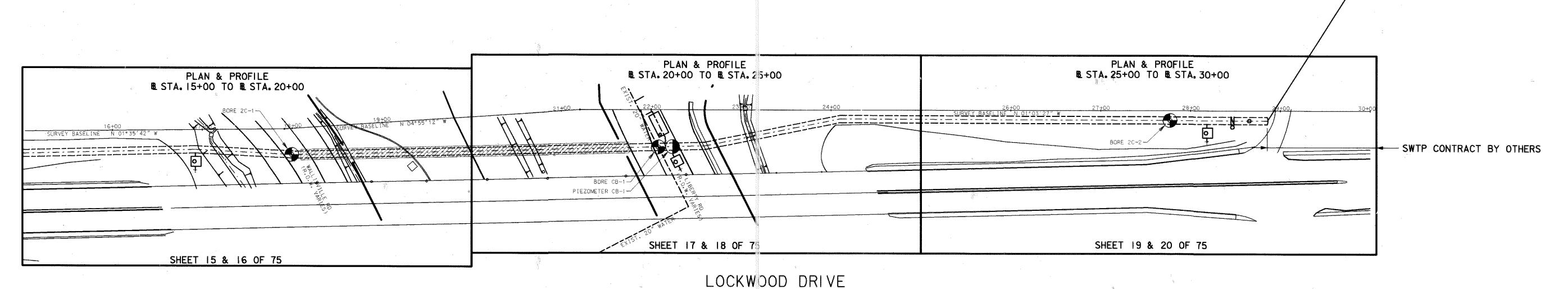
SCALE: HORIZ: I"=20" VERT: 1"=2" DATE:

DESIGNED BY: CAW DRAWN BY: CAW SHEET NO. 3 OF 75 SHEETS DWG. NO. 34535 SURVEY BY: GEOGRAM

FILE NAME: j:\*coh822\*2b2\*notes2.dgn PLOTTED ON: 03/17/98

F.B. NO.:





LEGEND

		PROPOSED 84" WATER LINE	ి: 
	<del>- \[ \] \[ \] \[ \] \</del>	PROPOSED TUNNEL CONSTRUCTION AS INDICATED	
		PROPOSED ACCESS MANWAY W/ACCESS MANHOLE	
	N	PROPOSED 84"BUTTERFLY VALVE W/ACCESS MANHOLE	
•	<b></b>	PROPOSED TAPPING SLEEVE & VALVE	**************************************

SOIL BORING LOCATION

PIEZOMETER LOCATION

PROPOSED ACCESS MANWAY 2" COMBINATION AIR RELEASE VALVE W/ACCESS MANHOLE

PROPOSED VACUUM RELIEF VALVE VAULT

PROPOSED PRV VAULT

# NOTES:

I. THE LAYOUT SKETCH OF THE PROPOSED 84" WATER LINE IS SHOWN APPROXIMATE ONLY. THIS SHEET IS FOR GENERAL INFORMATION.

2. ALL STATIONS NOTED ARE BASELINE STATIONS.

3. FOR BORING INFORMATION, SEE "GEOTECHNICAL INVESTIGATION SURFACE WATER TRANSMISSION PROGRAM".

4. THE CITY OF HOUSTON MAKES NO EXPRESSED OR IMPLIED GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF THE GEOTECHNICAL ENGINEERING STUDIES NOR THE INTERPRETATION THEREOF.

PRIVATE UTILITY LINES SHOWN  ENTEX, INC.  SOUTHWESTERN BELL TELEPHONE CO. Valid for One Year Only  HOUSTON LIGHTING & POWER CO. Approved Only for Crossing Underground Ductlines Unless Noted. Valid At Time of Review Only.  CABLE COMPANY  LOCKWOOD, Andrews Newnam, Inc. A SUBSIDIARY OF LEO A DALY  Approved  Approved	· · · · · · · · · · · · · · · · · · ·	
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END CONTRACT 2B-2

[1-13-00

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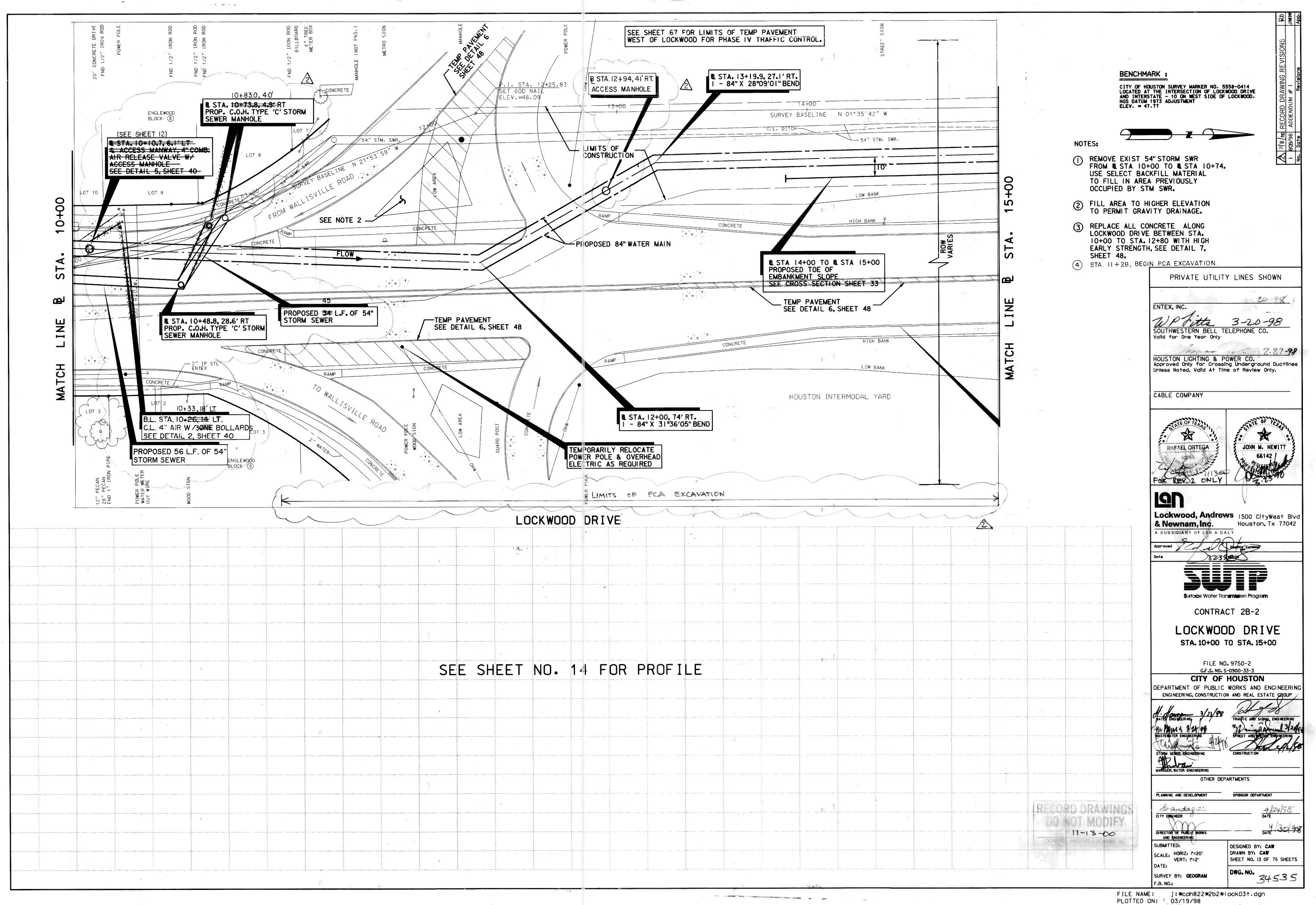
Surface Water Transmission Program CONTRACT 2B-2 SHEET LAYOUT/ CORE BORING PLAN (SHEET 1 OF 2) FILE NO. 9750-2 G.F.S. NO. S-0900-33-3 CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING ENGINEERING, CONSTRUCTION AND REAL ESTATE GROUP

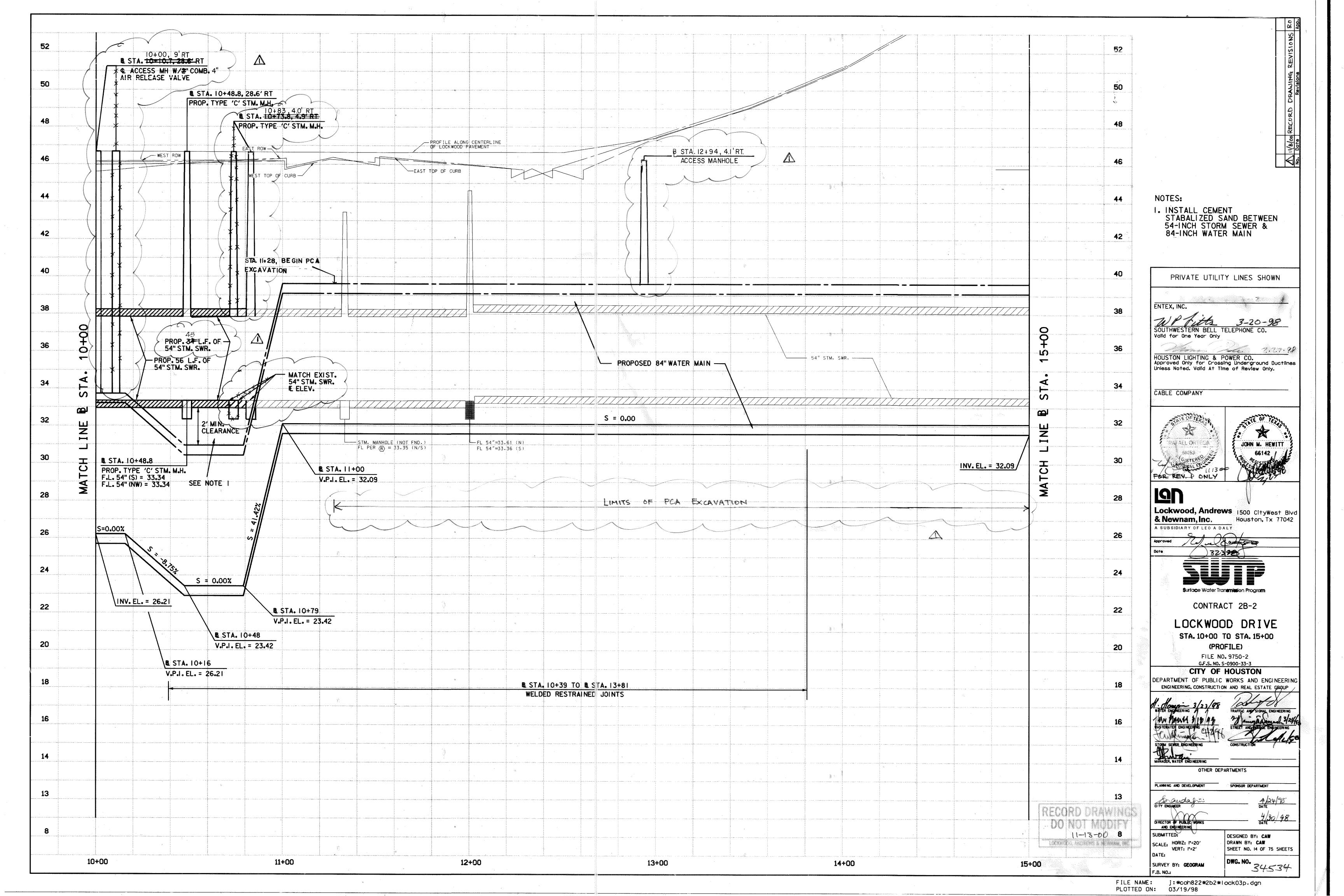
OTHER DEPARTMENTS SPONSOR DEPARTMENT CITY ENGINEER DIRECTOR OF PUBLIC WORKS AND ENGINEERING

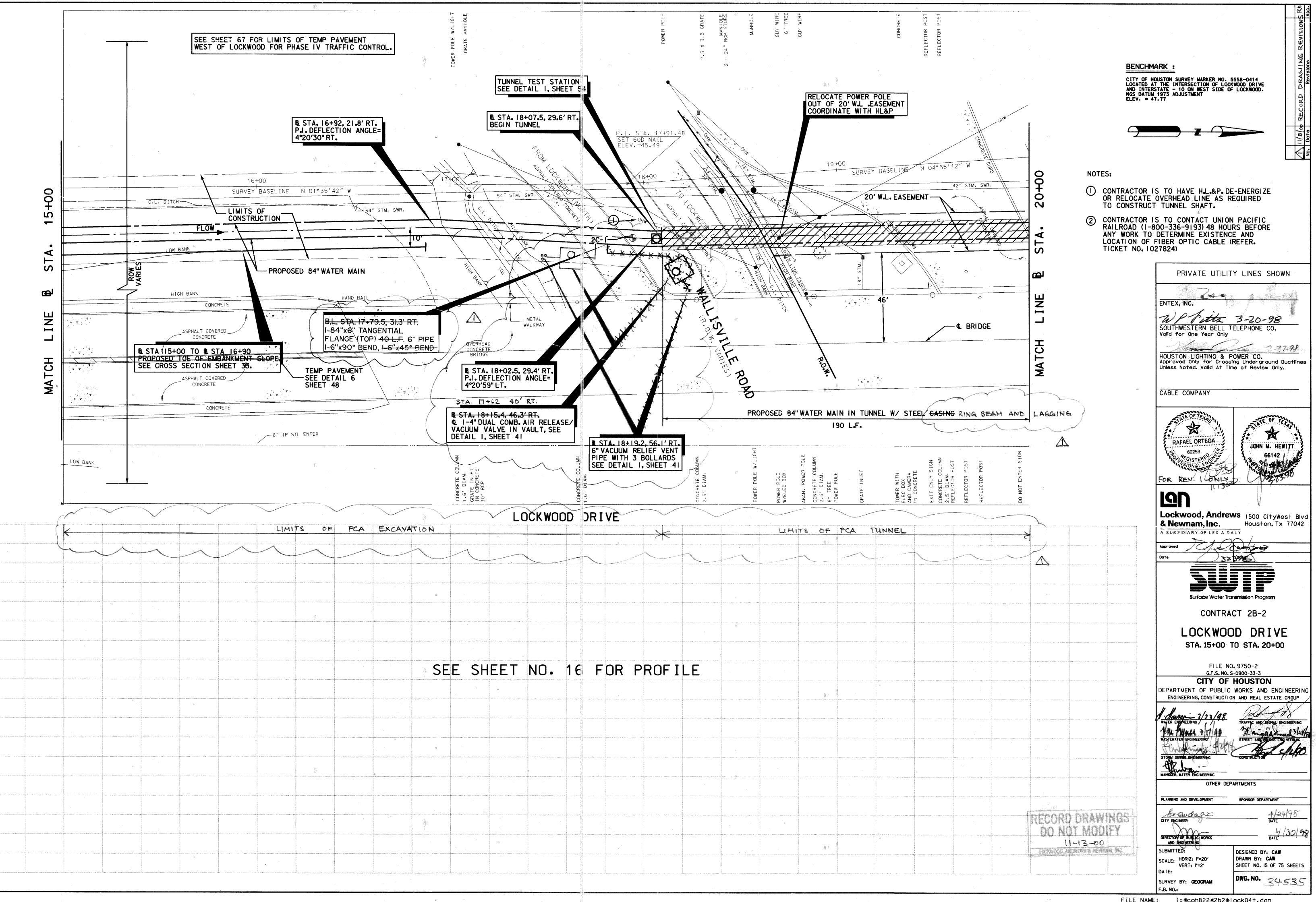
DESIGNED BY: CAW DRAWN BY: CAW SHEET NO. 4 OF 75 SHEETS SUBMITTED: SCALE: 1' = 60' DWG. NO. SURVEY BY:. 34535

FILE NAME: j:\*coh822\*2b2\*shtlay.dgn PLOTTED ON: 03/17/98

DATE:







FILE NAME: j:\*coh822\*2b2\*lock04+.dgn PLOTTED ON: 03/19/98

